MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Sika Sarnafil, A Division of Sika Corp.
100 Dan Road
Canton, MA 02021

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Sika Sarnafil PVC Single Ply Roofing over Cementitious Wood Fiber Deck.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

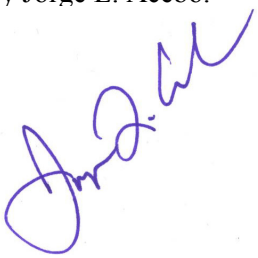
RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 12-0313.13 and consists of pages 1 through 8.
The submitted documentation was reviewed by Jorge L. Acebo.



ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Single Ply
Material: PVC
Deck Type: Cementitious Wood Fiber
Maximum Design Pressure: -52.5 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
G410 Felt	Various	ASTM D 4434	Fiberglass reinforced PVC roofing membrane with a non-woven felt backing.
G459	Various	ASTM D 4434	Fiberglass reinforced PVC Alloy asphalt compatible flashing membrane.
Sarnatape	Various	Proprietary	Air flow barrier tape
Sarnacol 2170	5 gallons	Proprietary	Solvent based bonding adhesive.
Sarnacol 2121	5 gallons	Proprietary	Water based bonding adhesive.
Sarnacol 2163		Proprietary	Insulation adhesive.
Sarnatred	3.25' x 32.8'	Proprietary	PVC walkway protection sheet.
SarnaWalkways	Various	Proprietary	PVC walkway protection sheet.
Sarnastack	Various	Proprietary	Prefabricated cone flashing.
Sarnaclad	Various	Proprietary	Heat weldable PVC/galvanized steel flashing

APPROVED INSULATIONS:

TABLE 2

Product	Product Description	Manufacturer (with current NOA)
Sarnatherm	Isocyanurate Insulation	Sika Sarnafil, A Division of Sika Corp.
ACFoam-II	Isocyanurate Insulation	Atlas Roofing Corp.
DensDeck, DensDeck Prime	Silicon treated gypsum	Georgia Pacific Gypsum LLC
ENRGY 3	Isocyanurate Insulation	Johns Manville Corp.
High Density Wood Fiberboard	Wood fiber insulation	Generic
H-Shield	Isocyanurate Insulation	Hunter Panels, LLC
Multi-Max FA-3	Isocyanurate Insulation	Rmax Operating, LLC
Structodek High Density Fiberboard Roof Insulation	High Density Wood Fiber insulation board.	Blue Ridge Fiberboard, Inc.

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Polymer GypTec Insulation Plate	Glass reinforced nylon fastener used with Polymer GypTec Insulation Plate (3" round)	Various	OMG, Inc.
2.	Polymer GypTec	Glass reinforced nylon	Various	OMG, Inc.
3.	Lite Deck Plate	Carbon Steel CR-10 Coating (black)	3" Round (min.2")	OMG, Inc.
4.	Sarnafastener	Insulation and membrane fastener	Various	Sika Sarnafil, A Division of Sika Corp.
5.	Sarnafastener Polymer GypTec	Glass reinforced nylon fastener used with Sarnadisc GypTec plate (3" round)	Various	Sika Sarnafil, A Division of Sika Corp.
6.	Sarnaplate	Insulation fastening plate.	3" Round	Sika Sarnafil, A Division of Sika Corp.
7.	Sarnabar	Galvanized or stainless steel membrane fastening bar.	Various	Sika Sarnafil, A Division of Sika Corp.

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	Date
Celotex Technical Center	MTS Job No. 258215	TAS 114	09/09/97
Exterior Research & Design	02767.02.06	TAS 114	02/08/06
Factory Mutual Research Corporation	0P6A6.AM	FM 4470	03/03/94
	0X3A3.AM	FM 4470	07/31/94
	2X2A5.AM	FM 4470	07/31/94
	0B9A0.AM	FM 4470	10/22/96
	1Z5A6.AM	FM 4470	07/18/97
	4B3A2.AM	FM 4470	06/19/97
	3016201	FM 4470	01/28/03
	3028309	FM 4470	03/30/07
Underwriters Laboratories, Inc.	R8992	UL 790	05/15/13
Trinity | ERD	S44790.06.13	ASTM D4434	06/05/13
	S42480.08.12	Physical Properties	08/20/12

APPROVED ASSEMBLIES:

Membrane Type: PVC

Deck Type 5I: Cementitious Wood Fiber, Insulated

Deck Description: Cementitious Wood Fiber

System Type A(1): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft2**
ACFoam-II, H-Shield, ENRGY 3, Sarnatherm Minimum: 1.5" thick	**N/A**	**N/A**
Structodek High Density Fiberboard Roof Insulation Minimum: 0.5" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime Minimum: 0.25" thick	**N/A**	**N/A**

Top Insulation Layer: (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft2**
ACFoam-II, H-Shield, ENRGY 3, Sarnatherm Minimum 1.5" thick	**N/A**	**N/A**
Structodek High Density Fiberboard Roof Insulation Minimum: 0.5" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime Minimum: 0.25" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in OlyBond 500 or SpotShot adhesive applied in continuous ¾" – 1" wide ribbons spaced 12" o.c. Refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: G410 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a ¼" x ¼" notched squeegee.

Maximum Design Pressure: -45 psf. (See General Limitation #9)

Membrane Type: PVC

Deck Type 5I: Cementitious Wood Fiber, Insulated

Deck Description: Cementitious Wood Fiber

System Type A(2): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-II, H-Shield, ENRGY 3, Sarnatherm Minimum: 1.5" thick	**N/A**	**N/A**
Approved High Density Wood Fiberboard Minimum: 0.5" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime Minimum: 0.25" thick	**N/A**	**N/A**

Top Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft2**
Approved High Density Wood Fiberboard Minimum: 0.5" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime Minimum: 0.25" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in full coverage of OlyBond Insulation Adhesive at a rate of 1 gal/sq. Refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: G410 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a ¼" x ¼" notched squeegee.

Maximum Design Pressure: -45 psf. (See General Limitation #9)

Membrane Type: PVC

Deck Type 5I: Cementitious Wood Fiber, Insulated

Deck Description: Cementitious Wood Fiber

System Type A(3): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-II, Multi-Max FA-3, H-Shield, ENRGY 3, Sarnatherm Minimum: 1.5" thick	**N/A**	**N/A**
Middle Insulation Layer: (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft2**
ACFoam-II, Multi-Max FA-3, H-Shield, ENRGY 3, Sarnatherm Tapered	**N/A**	**N/A**
Top Insulation Layer: (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft2**
Structodek High Density Fiberboard Roof Insulation Minimum: 0.5" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime Minimum: 0.25" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in TITE-SET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 applied in continuous 3-inch ribbons spaced 12" o.c. Refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a ¼" x ¼" notched squeegee or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller.

Maximum Design Pressure: -52.5 psf. (See General Limitation #9)

Membrane Type: PVC

Deck Type 5I: Cementitious Wood Fiber, Insulated

Deck Description: Cementitious Wood Fiber

System Type A(4): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-II, Multi-Max FA-3, H-Shield, ENRGY 3, Sarnatherm Minimum: 1.5" thick	**N/A**	**N/A**

Middle Insulation Layer: (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft2**
ACFoam-II, Multi-Max FA-3, H-Shield, ENRGY 3, Sarnatherm Tapered	**N/A**	**N/A**

Top Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft2**
Structodek High Density Fiberboard Roof Insulation Minimum: 0.5" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime Minimum: 0.25" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in TITE-SET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 applied in continuous 3-inch ribbons spaced 12" o.c. Refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a ¼" x ¼" notched squeegee or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller.

Maximum Design Pressure: -52.5 psf. (See General Limitation #9)

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. Insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117 and/or RAS 137. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE